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Amendments to the Claims

- (Currently Amended) A process for the preparation of alkylphosphonous acid esters, which comprises comprising the steps of:
- a) reacting elemental yellow phosphorus with alkylating agents in the presence of a base to give a mixture which comprises, as principal constituents, the (metal) salts of alkylphosphonous, phosphorous and hypophosphorous acids,
- b) esterifying the principal constituents of the mixture from a) to give an ester mixture, and
- c) isolating the ester of the alkylphosphonous acid from the ester mixture.
- (Currently Amended) A process as claimed in claim 1, wherein the alkylating agents are alkyl halides, dialkyl sulfates, trialkyl phosphates, dialkyl carbonates and/or-or formic acid ortho-esters.
- 3. (Currently Amended) A process as claimed in claim 1, wherein the alkylating agent employed is methyl chloride, methyl bromide and/or_or dimethyl sulfate.
- (Currently Amended) A process as claimed in claim 1, wherein the bases
 are base is selected from the group consisting of hydroxides, carbonates,
 bicarbonates, amides, alkoxides and/er amine bases.
- (Previously Presented) A process as claimed in claim 1, wherein the reaction in step a) is carried out in a two-phase system comprising aqueous alkali or alkaline-earth metal hydroxide or mixtures thereof and an organic solvent.
- 6. (Currently Amended) A process as claimed in claim 45, wherein the organic selvents solvent employed are is selected from the group consisting of

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straight-chain or branched alkanes, alkyl-substituted aromatic solvents, water-immiscible or only partially water-miscible alcohols or ethers, alone or in combination with one anotherand combinations thereof.

- 7. (Currently Amended) A process as claimed in claim 45, wherein the organic solvent employed is toluene, alone or in combination with alcohols.
- (Previously Presented) A process as claimed in claim 1, wherein the reaction is carried out in the presence of a phase-transfer catalyst.
- (Previously Presented) A process as claimed in claim 8, wherein the phasetransfer catalyst is a tetraalkylphosphonium halide, triphenylalkylphosphonium halide or tetraorganylammonium halide.
- (Previously Presented) A process as claimed in claim 1, wherein the temperature during the reaction with the yellow phosphorus is from -20 to +80°C.
- 11. (Previously Presented) A process as claimed in claim 1, wherein the temperature during the reaction with the yellow phosphorus is from 0 to 30°C.
- (Previously Presented) A process as claimed in claim 1, wherein the reaction is carried out under a pressure of from 0 to 10 bar.
- 13. (Previously Presented) A process as claimed in claim 1, wherein the principal constituents of the mixture from a) are esterified in step b) using a linear or branched alcohol of the general formula R-OH, where R is a linear or branched alkyl radical having 1 to 10 carbon atoms.
- 14. (Currently Amended) A process as claimed in claim 1, wherein the principal constituents of the mixture from a) are reacted with <u>at least one</u> mineral acids <u>acid</u> to give a mixture of alkylphosphonous, phosphorous and

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hypophosphorous acids and at the same time the (metal) salts of the mineral acids are precipitated, and the mixture of these acids is subsequently esterified.

- 15. (Previously Presented) A process as claimed in claim 1, wherein the water formed during the esterification is removed by azeotropic distillation.
- 16. (Currently Amended) A process as claimed in claim 46, wherein the alcohol is n- or i-butanol, n-hexanol, ethylhexanol and/or amyl alcohol.
- 17. (Currently Amended) A process as claimed in claim 1, wherein the <u>at least</u> one mineral acid is hydrochloric acid, sulfuric acid and/or phosphoric acid.
- 18. (Currently Amended) A process as claimed in claim 1, wherein the <u>at least</u> one mineral acid is hydrochloric acid.
- 19. (Previously Presented) A process as claimed in claim 1, wherein the phosphines formed in small amounts in step a) are removed by oxidation.
- 20. (Currently Amended) A process as claimed in claim 419, wherein hydrogen peroxide is employed for the oxidation.
- 21. (Previously Presented) A process as claimed in claim 1, wherein the ester of the alkylphosphonous acid is removed by distillation in step c).
- 22. (Currently Amended) A process as claimed in claim 1, wherein the ester of the alkylphosphonous acid is n-butyl methylphosphonite, isobutyl methylphosphonite, phosphonite, n-hexyl methylphosphonite, 2-ethylhexyl methylphosphonite and/or amyl methylphosphonite.
- 23. (Withdrawn) The use of an alkylphosphonous acid ester prepared by a process as claimed in claims 1 for the preparation of organophosphorus compounds and derivatives.

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- 24. (Withdrawn) The use of an alkylphosphonous acid ester prepared by a process as claimed in claims 1 as a precursor for chemical synthesis.
- 25. (Withdrawn) The use of an alkylphosphonous acid ester prepared by a process as claimed in claims 1 for the preparation of phosphinic acids as starting materials for crop protection agents.
- 26. (Withdrawn) The use of an alkylphosphonous acid ester prepared by a process as claimed in claims 1 for the preparation of flame retardants.
- 27. (Withdrawn) The use of an alkylphosphonous acid ester prepared by a process as claimed in claims 1 for the preparation of flame retardants for thermoplastic polymers, such as polyethylene terephthalate, polybutylene terephthalate or polyamide.
- 28. (Withdrawn) The use of an alkylphosphonous acid ester prepared by a process as claimed in claims 1 for the preparation of flame retardants for thermosetting resins, such as unsaturated polyester resins, epoxy resins, polyurethanes or acrylates.